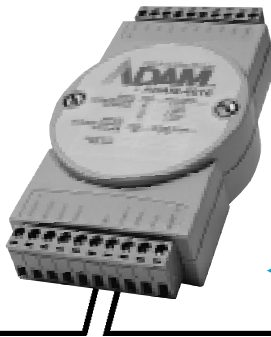
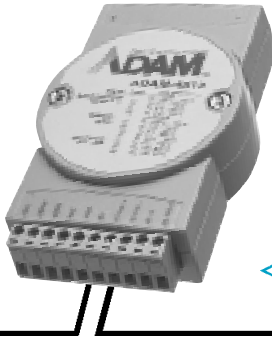


ADAM-4013
ADAM-4016
ADAM-4017

RTD Input Module
Analog Input/Output Module
8-Channel Analog Input Module



ADAM-4013 RTD Input Module

Analog Input

- Effective resolution: 16-bit
- Input type: Pt or Ni RTD
- RTD types and temperature ranges:
 - IEC RTD 100 ohms
 - Pt-100° C to +100° C a = 0.00385
 - Pt 0° C to +100° C a = 0.00385
 - Pt 0° C to +200° C a = 0.00385
 - Pt 0° C to +600° C a = 0.00385
 - JIS RTD 100 ohms
 - Pt-100° C to +100° C a = 0.003916
 - Pt 0° C to +100° C a = 0.003916
 - Pt 0° C to +200° C a = 0.003916
 - Pt 0° C to +600° C a = 0.003916
 - Ni RTD
 - Ni -80° C to +100° C
 - Ni 0° C to +100° C
- Isolation voltage: 3000 V_{DC}
- Sampling rate: 10 samples/sec.
- Input impedance: 2 MΩ
- Bandwidth: 2.62 Hz
- Input connections: 2, 3 or 4 wire
- Accuracy: ±0.05% or better
- Zero drift: ±3 μV/° C
- Span drift: ±25 ppm/° C
- CMR @ 50/60 Hz: 150 dB
- NMR @ 50/60 Hz: 100 dB

Built-in Watchdog Timer

Power

- Power requirements:
Unregulated +10 ~ +30 V_{DC}
- Power consumption: 0.7 W

ADAM-4016 Analog Input/Output Module

Analog Input

- Effective resolution: 16-bit
- Channels: 1 differential
- Input type: mV and mA
- Input range: ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±20 mA
- Isolation voltage: 3000 V_{DC}
- Sampling rate: 10 samples/sec.
- Input impedance: 2 MΩ
- Bandwidth: 2.62 Hz
- Accuracy: ±0.05% or better
- Zero drift: ±6 μV/° C
- Span drift: ±25 ppm/° C
- CMR @ 50/60 Hz: 150 dB
- NMR @ 50/60 Hz: 100 dB

Analog Output

- Channel: 1
- Output type: V
- Output range: 0 ~ 10 V
- Drive current: 30 mA
- Isolation voltage: 3000 V_{DC}
- Accuracy: 0.05% of FSR
- Drift: ±50 ppm/° C

Digital Output

- Channels: 4
(see specifications of ADAM-4012)

Built-in Watchdog Timer

Power

- Power requirements:
Unregulated +10 ~ +30 V_{DC}
- Power consumption: 2.2 W

ADAM-4017 8-Channel Analog Input Module

Analog Input

- Effective resolution: 16-bit
- Channels:
Six differential, two single-ended
- Input type: mV, V, mA
- Input range: ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA
- Isolation voltage: 3000 V_{DC}
- Fault and overvoltage protection:
Withstands overvoltage up to ±35 V
- Sampling rate: 10 samples/sec. (total)
- Input impedance: 20 MΩ
- Bandwidth: 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- Accuracy: ±0.1% or better
- Zero drift: ±6 μV/° C
- Span drift: ±25 ppm/° C
- CMR @ 50/60 Hz: 92 dB min.

Built-in Watchdog Timer

Power

- Power requirements:
Unregulated +10 ~ +30 V_{DC}
- Power consumption: 1.2 W